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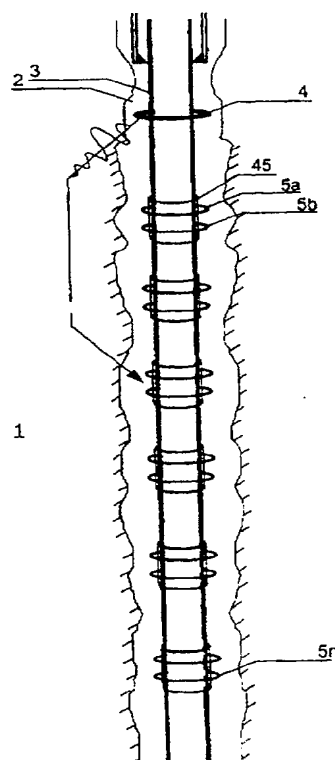
(71) Applicant(s)  
Den Norske Stats Oljeselskap a.s.  
(Incorporated in Norway)  
N-4035 Stavanger, Norway

(74) Agent and/or Address for Service  
Kilburn & Strode  
20 Red Lion Street, LONDON, WC1R 4PJ,  
United Kingdom

(72) Inventor(s)  
Fan-Nian Kong  
Harald Westerdahl  
Terje Eidesmo  
Svein Ellingsrud

(54) Abstract Title  
**Device and method for measurement of resistivity outside of a wellpipe**

(57) The invention is a device for measuring and surveillance of resistivity in a petroleum reservoir in a geological formation with an injection-, observation- or production well comprising an electrically conductive metallic well tubing, with the new and inventive being characterized by the following features: a) an electrical energy source; b) at least one inductive transmitter antenna for electromagnetic waves, fixedly arranged in the well, outside of the well tubing's outer metallic surface; c) at least one series of sensors comprising n inductive resistivity sensors (5a, 5b, ..., 5n) arranged for receiving the electromagnetic waves and generation of measurement signals, fixedly arranged in the well, by the petroleum reservoir and outside the well tubing's outer metallic surface; and d) a signal conductor for the measurements signals.



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